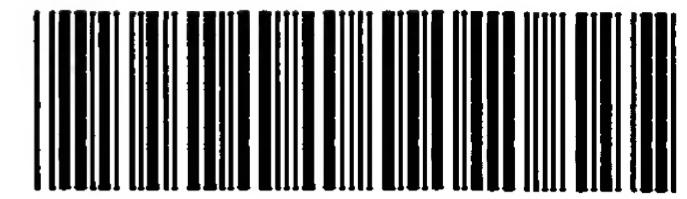


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/664,234 A
Source: JFWJ16
Date Processed by STIC: 08/31/2006

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 08/31/2006
PATENT APPLICATION: US/10/664,234A **TIME:** 09:15:52

Input Set : A:\3240-105.ST25.txt
Output Set: N:\CRF4\08312006\J664234A.raw

65 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning vector

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/664,234A

DATE: 08/31/2006
TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt
Output Set: N:\CRF4\08312006\J664234A.raw

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67 <400> SEQUENCE: 3
68 gtcggatcca agcgccgcg
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 30
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial
76 <220> FEATURE:
77 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (1)..(30)
83 <223> OTHER INFORMATION: n is a,t,c or g
85 <400> SEQUENCE: 4
W--> 86 aattcgcggc cgcttggatc cgacgnnnnn
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 19
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
97 <400> SEQUENCE: 5
98 tcgaccagg atccaaactt
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 13
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (1)..(1)
113 <223> OTHER INFORMATION: phosphorylation
115 <400> SEQUENCE: 6
116 gttggatcct ggg
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 17
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
127 <400> SEQUENCE: 7
128 gtaaaaacgac ggccagt
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 19
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial
136 <220> FEATURE:
137 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector

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139 <400> SEQUENCE: 8

RAW SEQUENCE LISTING DATE: 08/31/2006
 PATENT APPLICATION: US/10/664,234A TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt
 Output Set: N:\CRF4\08312006\J664234A.raw

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140 ggaaacagct atgaccatg 19
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 20
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial
148 <220> FEATURE:
149 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
151 <400> SEQUENCE: 9
152 taatacgact cactatagg 20
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial
160 <220> FEATURE:
161 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
163 <400> SEQUENCE: 10
164 gatgtgctgc aaggcgatta ag 22
167 <210> SEQ ID NO: 11
168 <211> LENGTH: 23
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial
172 <220> FEATURE:
173 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
175 <400> SEQUENCE: 11
176 agcggataac aatttcacac agg 23
179 <210> SEQ ID NO: 12
180 <211> LENGTH: 48
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Oligonucleotide with homolgy to a bacteria cloning vector
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (1)..(48)
191 <223> OTHER INFORMATION: n is a,t,c or g
193 <400> SEQUENCE: 12
W--> 194 gatccgacnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaagttg 48
197 <210> SEQ ID NO: 13
198 <211> LENGTH: 48
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligonucleotide with homolgy to a bacteria cloning vector
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (1)..(48)
209 <223> OTHER INFORMATION: n is a,t,c or g
211 <400> SEQUENCE: 13
W--> 212 gatccaactt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngtcg 48

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/664,234A

DATE: 08/31/2006
TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt
Output Set: N:\CRF4\08312006\J664234A.raw

```

215 <210> SEQ ID NO: 14
216 <211> LENGTH: 29
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Oligonucleotide primer with homolgy to a bacteria cloning
vector
223 <400> SEQUENCE: 14
224 cgctctcctg taccgaccct gccgcttac 29
227 <210> SEQ ID NO: 15
228 <211> LENGTH: 29
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Oligonucleotide primer with homolgy to a bacteria cloning
vector
235 <400> SEQUENCE: 15
236 aactatcgtc ttgagaccaa cccggtaag 29
239 <210> SEQ ID NO: 16
240 <211> LENGTH: 24
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Oligonucleotide adapter with homolgy to a bacteria cloning
vector
248 <400> SEQUENCE: 16
249 aattctcgag cggccgcgat atcg 24
252 <210> SEQ ID NO: 17
253 <211> LENGTH: 24
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Oligonucleotide adapter with homolgy to a bacteria cloning
vector
261 <400> SEQUENCE: 17
262 gagctcgccg ggcgtatagc ttaa 24
265 <210> SEQ ID NO: 18
266 <211> LENGTH: 3404
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial
270 <220> FEATURE:
271 <223> OTHER INFORMATION: bacterial cloning vector
273 <400> SEQUENCE: 18
274 gggcaattc tcgagcggcc gggatccga cgagagcgcc tgcgtacggc tcggcgcggt 60
276 ggctggcgct acttcggagg agccgcacgc ggccgcgtcg ttttataaca ttcccgcgcg 120
278 gaggcaacgg aaggcgcccc ccgcgtgtga ttaggccgcg gaggtcacag gctctgttgt 180
280 catgaaggtg aaaattaaat gttggaatgg tggccact tggctctgg tagccaatga 240
282 tgagaactgc ggcattctgca gatggcggtt taatggctgc tgtccagact gtaagggtgcc 300
284 tggtgatgac tgccccctcg tgtggggaca gtgcctccac tgcttccaca tgcactgcat 360
286 cctcaagtgg ctgaatgcgc agcagggtgca gcagcactgc cccatgtgtc gccaggagtg 420
288 gaagttcaaa gagtgaagcc cgtgccgtgc cacttccctc tcctgtgtc tgccaggctc 480

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/664,234A

DATE: 08/31/2006

TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\08312006\J664234A.raw

290	agccccttcc	ctccctcccc	tccccca	gat acacgcac	540
292	agtggtgccc	agagatctcg	gtctgtgccg	gggacaagg	600
294	caagggtgaa	aggagctttg	ctgactgtt	tgtttccca	660
296	ataagtaaaa	ctcattacag	ttccaagtcg	gatcctgggt	720
298	ttgagtattc	tatagtgtca	cctaaatagc	ttggcgtaat	780
300	gtgtgaaatt	gttatccgct	cacaattcca	cacaacatac	840
302	aaagcctggg	gtgccta	atg agctaa	ctcacattaa	900
304	gcttccagt	cgggaaac	ctcg	gtccag	960
306	agaggcggtt	tgcgtattgg	gcgc	tcttcc	1020
308	gtcggtcggc	tgcggcgagc	ggtatcag	act cttaa	1080
310	gaatcagggg	ataacgcagg	aaagaacatg	ttagcaaaag	1140
312	cgtaaaaagg	ccgcgttgc	ggcg	ttttc	1200
314	aaaaatcgac	gctcaagtca	gagg	ttggcga	1260
316	tttccccctg	gaagctcc	cgtgcgtc	cctgtacc	1320
318	ctgtccgcct	ttctccctc	ggaa	agcgt	1380
320	ctcagttcgg	tgtaggtcgt	tcg	cttcca	1440
322	cccgaccgct	gcgc	tttac	cgtt	1500
324	ttatcgccac	tggc	agcag	cact	1560
326	gctacagagt	tcttga	gtgg	ccta	1620
328	atctgcgtc	tgc	taag	gatc	1680
330	aaacaaacca	ccgc	tggtag	ggat	1740
332	aaaaaaaggat	ctcaagaaga	tcctt	tttgc	1800
334	gaaaactcac	gttaagg	tttgc	atgat	1860
336	ctttaaatt	aaaaatgaag	ttttaa	atcta	1920
338	gacagttacc	aatgc	taat	cgtt	1980
340	tccatagtt	cctgact	ccc	cg	2040
342	ggccccagtg	ctg	caat	gat	2100
344	ataaaaccagc	cagcc	ggaa	ggcgc	2160
346	atccagtcta	ttaatt	gtt	ggc	2220
348	cgcaacgtt	ttgg	catt	gc	2280
350	tcattcagct	ccgg	ttccca	ac	2340
352	aaagcggta	gctc	ttcc	gttgc	2400
354	tcactcatgg	ttat	ggc	act	2460
356	ttttctgtga	ctgg	ttag	atgtt	2520
358	agttgtctt	gcc	ccgc	tttgc	2580
360	gtgctcatca	ttgg	aaaac	tttgc	2640
362	agatccagtt	cgat	gttaacc	act	2700
364	accagcg	ttgg	tttgc	gttgc	2760
366	g	cgacac	tttgc	tttgc	2820
368	cagg	tttgc	tttgc	tttgc	2880
370	gggttccgc	gcac	tttgc	tttgc	2940
372	atgacattaa	cctata	tttgc	tttgc	3000
374	gatgacgg	aaaac	tttgc	tttgc	3060
376	gcggat	tttgc	tttgc	tttgc	3120
378	ggctgg	tttgc	tttgc	tttgc	3180
380	gaaataccgc	acagat	tttgc	tttgc	3240
382	ctgcgca	act	tttgc	tttgc	3300
384	aaagg	tttgc	tttgc	tttgc	3360
386	cgtt	tttgc	tttgc	tttgc	3404

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/664,234A

DATE: 08/31/2006
TIME: 09:15:53

Input Set : A:\3240-105.ST25.txt
Output Set: N:\CRF4\08312006\J664234A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 33
Seq#:2; N Pos. 25, 26, 27, 28, 29, 30
Seq#:4; N Pos. 26, 27, 28, 29, 30
Seq#:12; N Pos. 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28
Seq#:12; N Pos. 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42
Seq#:13; N Pos. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30
Seq#:13; N Pos. 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28
Seq#:29

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/664,234A

DATE: 08/31/2006

TIME: 09:15:53

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\08312006\J664234A.raw

L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

~